WHAT IS CLAIMED IS:

1. A compound of the formula I:

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wherein:

R1 is selected from the group consisting of:

- (1) C₁₋₆alkyl, unsubstituted or substituted with -OR⁵ or -S(O)₂-C₁₋₆alkyl,
- (2) hydrogen,
- 10 (3) phenyl, and
 - (4) benzyl;

R² is selected from the group consisting of:

- (1) hydrogen,
- 15 (2) $R^4-S(O)_{p^-}$

wherein R4 is independently selected from the group consisting of:

- (a) -C₁₋₆alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (b) phenyl, and
- (c) benzyl,

20 (3) $R^{4}-S(O)_{p}N(R^{5})-$,

wherein R5 is independently selected from the group consisting of:

- (a) hydrogen,
- (b) -C₁₋₆alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (c) -C3-6cycloalkyl which is unsubstituted or substituted with methyl,
- (d) phenyl, which is unsubstitued or substituted with halo or methoxy, and
- (e) benzyl,
- (4) -CN,

- (5) -C₁-6alkyl-CN,
- (6) halogen,

(7)

5 wherein R8a and R8b are independently selected from the group consisting of:

- (a) hydrogen,
- (b) -CN,
- (c) halo,
- (d) -C₁₋₆alkyl,
- (e) $-O-R^5$,
- (f) $-S-R^5$,
- (g) $-CO_2R^5$, and
- (h) tetrazolyl,

(8)

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wherein n is 1, 2, 3 or 4;

R³ is selected from the group consisting of:

$$R^{6b}$$
 R^{6b}
 R^{6b}

$$R^{5}$$
 R^{5}
 R^{5}
 R^{5}
 R^{7}

- 20 R6a, R6b, and R6c are independently selected from the group consisting of:
 - (1) hydrogen,

- (2) halogen,
- (3) $-OR^5$,
- (4) -SR⁵, and
- (5) -C₁-6alkyl;

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R7 is selected from the group consisting of a bond, -CH=CH-, -O-, -S-, and -NH-;

R9 and R10 are independently selected from the group consisting of:

- (1) hydrogen,
- (2) C₁₋₆alkyl, unsubstituted or substituted with -CN or 1-4 halo,
- (3) -C3-6cycloalkyl,
- (4) phenyl, which is unsubstitued or substituted with halo or methoxy, and
- (5) benzyl,

or R⁹ and R¹⁰ may be joined together to form a pyrrolidine or piperidine ring which is unsubstituted or substituted with benzyl, -OR⁵ or 1-4 halo;

m is independently 0, 1, or 2;

p is independently 0, 1, or 2,

and pharmaceutically acceptable salts thereof.

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- 2. The compound of Claim 1 wherein R^1 is C_{1-6} alkyl.
- 3. The compound of Claim 1 wherein R^1 is methyl.
- 4. The compound of Claim 1 wherein R¹ is ethyl.
 - 5. The compound of Claim 1 wherein R² is: R⁴-S(O)₂-NR⁵-

and wherein R4 is selected from the group consisting of:

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- (4) C_{1-6} alkyl,
- (5) phenyl, and
- (6) benzyl;

R⁵ is selected from the group consisting of:

(5) C_{1-6} alkyl,

- (6) phenyl,
- (7) benzyl, and
- (8) hydrogen.

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6. The compound of Claim 1 wherein R³ is:

and wherein R^5 is methyl, R^{6a} is H or F, R^{6b} and R^{6c} are hydrogen.

7. The compound of Claim 1 wherein R³ is:

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- 8. The compound of Claim 1 wherein R⁹ is hydrogen.
- 9. The compound of Claim 1 wherein R¹⁰ is C₁₋₆alkyl.

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- 10. The compound of Claim 1 wherein R10 is iso-butyl.
- 11. A compound which is selected from the group consisting of:

	CH ₃
CH ₉ .N.S.CH ₉ F H H N CH ₉	CH ₃
CH ₃	CH ₃ CH ₉ CH ₉ CH ₉ CH ₉ CH ₉ CH ₉
CH ₃ CH ₃ CH ₃ H	CH ₃ CH ₃ CH ₃ CH ₃ H CH ₃ CH ₃ H CH ₃
CH ₃ O ₂ O ₂ O ₃ CH	CH ₃ CH ₃ CH ₃ CH ₃ CH ₃ CH ₃ H CH CH ₃ H CH CH ₃ H CH C
CH ₉	CH ₃ S=0 CH ₃ S=0 F H N O CH ₃ H N N N N N N N N N N N N N N N N N N
CH ₃ S=0 CH ₃ S=0 F H N N N N N N N N N N N N N N N N N N	CH ₃

CH ₃ CH ₃ N CH ₃ H CH ₃ H CH ₃ CH ₃ CH ₃ H CH ₃	CH ₃ CH ₃ N-CH ₃ CH ₃ H N H N H N H N H N H N H N H N H N H
CH ₃ CH ₃ N S O CH ₃ CH ₃ HN CH ₃ HN CH ₃ CH ₃	CH ₃ CH ₃ CH ₃ O HN HN H CH ₃ CH ₃ CH ₃ CH ₃ CH ₃ H CH ₃ CH ₃ CH ₃ CH ₃ H CH ₃ CH ₃ CH ₃ CH ₃
CH ₃ O CH ₃ CH ₃ CH ₃ CH ₃ CH ₃ CH ₃	CH ₃
CH ₃	CH ₃ Q O CH ₃ N-S N-CH ₃ CH ₃ H O F
CH ₃ Q O CH ₃ N-S N-CH ₃ CH ₃ H CH ₃ N CH ₃	CH ₃ CH ₃ CH ₃ CH ₃

CH ₃ CH ₃ S N-CH ₃ H N H CH ₃ C	CH ₃ O CH ₃
CH ₃ O CH ₃ CH ₃ CH ₃	F CH ₃
CH ₃ N CH ₃ H CH ₃ CH ₃ CH ₃	CH ₃ CH ₃ H CH ₃ H CH ₃
CH ₃	CH ₃ CH ₃ CH ₃ CH ₃ CH ₃
CH ₃ CH ₃ CH ₃ CH ₃ CH ₃	CH3 N CH3 CH3
CH ₃ CH ₃ CH ₃	CH ₃ CH ₃ CH ₃ CH ₃
CH ₃ CH ₃ H CH ₃ CH ₃ CH ₃ CH ₃	CH ₃

and pharmaceutically acceptable salts thereof.

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- 12. A pharmaceutical composition comprising a therapeutically effective amount of the compound of Claim 1 and a pharmaceutically acceptable carrier.
 - 13. A method for inhibition of β -secretase activity in a mammal which comprises administering to the mammal in need thereof a therapeutically effective amount of the compound of Claim 1 or a pharmaceutically acceptable salt thereof.
 - 14. A method for treating Alzheimer's disease in a patient comprising the administration to the patient of a therapeutically effective amount of the compound of Claim 1 or a pharaceutically acceptable salt thereof.
- 15. A method for preventing, controlling, ameliorating or reducing the risk of Alzheimer's disease in a patient comprising the administration to the patient of a therapeutically effective amount of the compound of Claim 1 or a pharmaceutically acceptable salt thereof.